



Arkay Windows

TECHNICAL DOCUMENTS

Aluk 58BD Resi Doors

Residential Door - 58BD

58BD ENTRANCE DOOR

Available in a wide range of styles and formats, our stylish aluminium Entrance door system is suitable for both light and medium-duty use. Designed with security and flexibility front of mind, every door in the range is available in single and double configurations making them ideal for almost any application.

DESIGN FEATURES

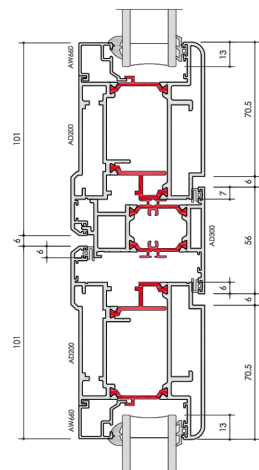
- Certified under the Secured By Design scheme
- Tested to PAS 24
- Multi-point locking mechanism

OPTIONS

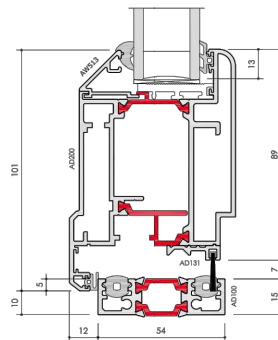
- Glazing 24mm – 40mm
- 58mm or 70mm frame depth to accommodate varying types of applications
- Low threshold option for Part M – Building regulation
- Available in a range of single or dual colour and anodised finishes
- Available for new build or refurbishments
- Available in single or double door configuration



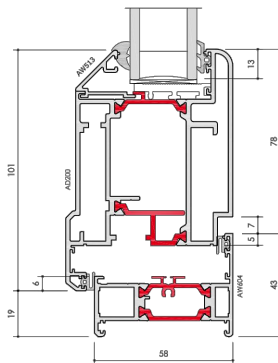
Meeting Stile Detail



Cill Detail Low Threshold



Cill Detail Standard Threshold



SPECIFICATIONS

PERFORMANCE & ACCREDITATION	SINGLE OPEN IN	SINGLE OPEN OUT	DOUBLE OPEN IN	DOUBLE OPEN OUT
Air permeability	Class 4 (600 Pa)	Class 4 (600 Pa)	Class 2 (300 Pa)	Class 2 (300 Pa)
Water penetration	Class 3a (100 Pa)	Class 7a (300 Pa)	Class 7a (300 Pa)	Class 9a (600 Pa)
Wind resistance	Class A3 (1200 Pa)	Class AE2400 (2400 Pa)	Class A2400 (2400 Pa)	Class A2400 (2400 Pa)
Building regulations part L compliant	✓	✓	✓	✓
Building regulations part M compliant	✓	✓	✓	✓
Acoustic performance (dB)	npd	npd	npd	npd
•U-value (double glazing)	1.7 W/m²K	1.7 W/m²K	1.7 W/m²K	1.7 W/m²K
†U-value (triple glazing)	1.4 W/m²K	1.4 W/m²K	1.5 W/m²K	1.5 W/m²K
Fire (EN1631-3)	npd	npd	npd	npd
Smoke (EN1631-3)	npd	npd	npd	npd
Security	PAS 24	PAS 24	PAS 24	PAS 24
3rd party certification	Q-mark	Q-mark	Q-mark	Q-mark
Secured by design	Yes	Yes	Yes	Yes
Durability EN1191 category	50,000 Cycles	50,000 Cycles	50,000 Cycles	50,000 Cycles
SYSTEM DEPTH				
Units (mm)	58mm and 70mm	58mm and 70mm	58mm and 70mm	58mm and 70mm
DESIGN FEATURES				
Thermally broken	✓	✓	✓	✓
Low threshold	✓	✓	✓	✓
Panel door	✓	✓	✓	✓
Feature design - rounded contours	✓	✓	✓	✓
Sightline (Head)	120mm	120mm	120mm	120mm
Sightline (Cill)	111mm	111mm	111mm	111mm
Sightline (Jamb)	120mm	120mm	120mm	120mm
Sightline (Meeting Stile)	208mm	208mm	208mm	208mm
HARDWARE				
Multi-point locking	✓	✓	✓	✓
Barrell hinges	✓	✓	✓	✓
FINISHES				
Single colour	✓	✓	✓	✓
Dual colour	✓	✓	✓	✓
Textured	✓	✓	✓	✓
MAXIMUM SIZES AND WEIGHTS				
Maximum door leaf size	1020mm x 2160mm	1020mm x 2160mm	1020mm x 2160mm	1020mm x 2160mm
Maximum door leaf weight	90 kg	90 kg	90 kg	90 kg
Maximum glazing thickness	24mm - 40mm	24mm - 40mm	24mm - 40mm	24mm - 40mm
APPLICATIONS				
New build	✓	✓	✓	✓
Refurbishment	✓	✓	✓	✓

*U Value Double Glazing - Single Doors are calculated using EN ISO 10077 - Part 2, 1000mm x 2160mm Single Door with Ug 1.0W/m²K using AW604 outer frame and A2000/A2001 vert. Double Doors are calculated using EN ISO 10077 - Part 2, 2000mm x 2160mm Single Door with Ug 1.0W/m²K using AW604 outer frame and A2000/A2001 vert.

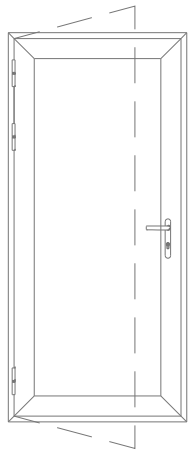
†U Value Triple Glazing - Single Doors are calculated using EN ISO 10077 - Part 2, 1000mm x 2160mm Single Door with Ug 0.7W/m²K using AW604 outer frame and A2000/A2001 vert. Double Doors are calculated using EN ISO 10077 - Part 2, 2000mm x 2160mm Single Door with Ug 0.7W/m²K using AW604 outer frame and A2000/A2001 vert.

58BD - Contents

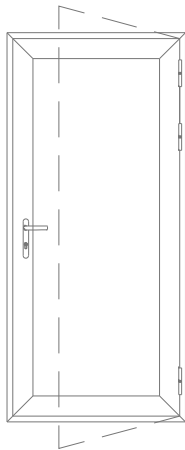
- 1.0 Typical Elevations
- 2.0 Standard Profiles
- 3.0 Typical Sections
 - 3.1 Threshold - Rebated Frame Open Out
 - 3.2 Threshold - Low Threshold Open Out
 - 3.3 Threshold - Rebated Frame Open In
 - 3.4 Threshold - Low Threshold Open In
 - 3.5 Head - Open Out
 - 3.6 Head - Open In
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 - 3.16 Threshold - Low Threshold Sill Options
 - 3.17 Frame - Concealed Coupler
 - 3.18 Frame - Reinforced Coupler

58BD - Elevations

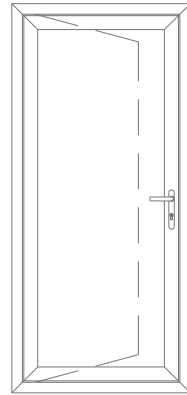
SINGLE RESIDENTIAL DOORS



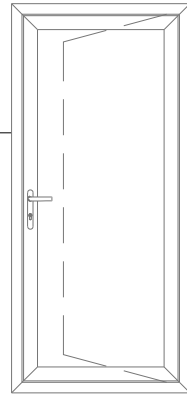
Left Hinged
Open Out



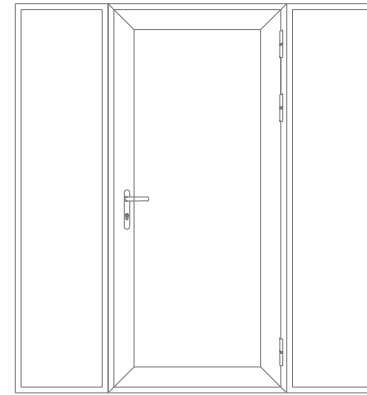
Right Hinged
Open Out



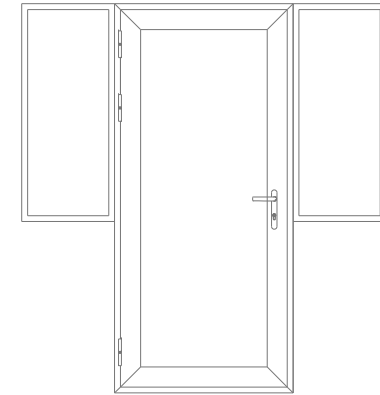
Left Hinged
Open In



Right Hinged
Open In

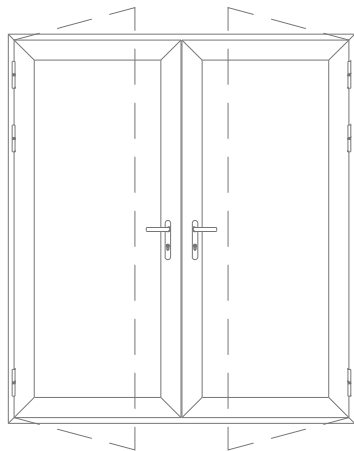


Right Hinged
Side Light

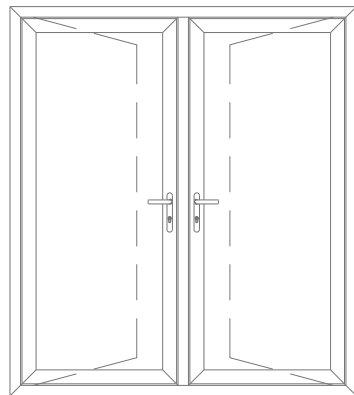


Left Hinged
Side Light

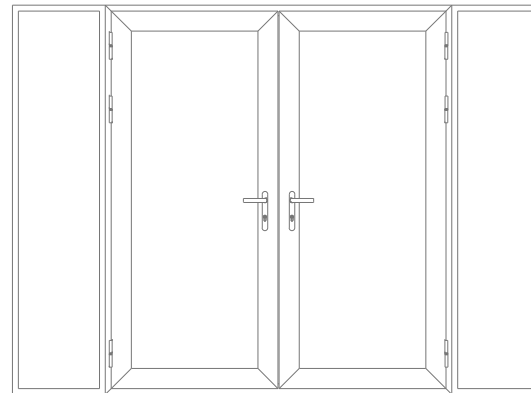
FRENCH RESIDENTIAL DOORS



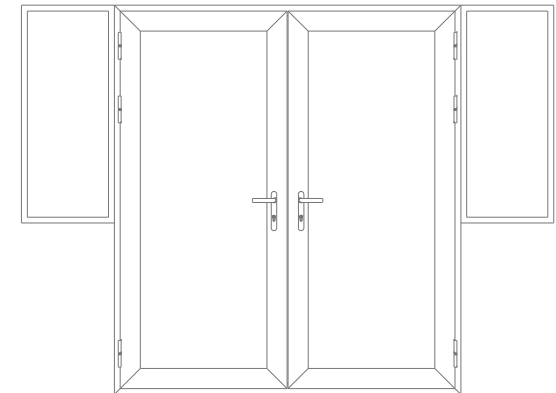
Left/Right Master
Open Out



Left/Right Master
Open In

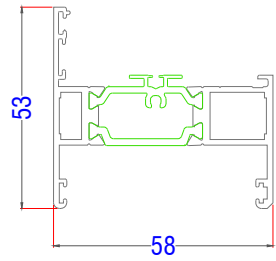


Left/Right Master
Side Light

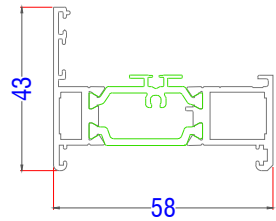


Left/Right Master
Side Light

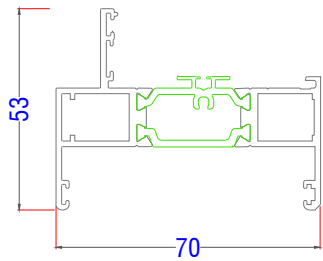
58BD - Profiles



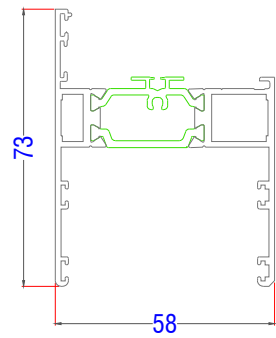
AW605 - Equal leg Standard Frame



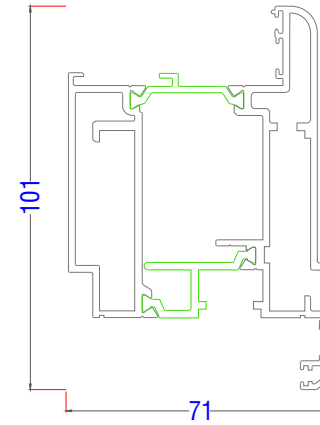
AW604 - Equal Leg Slim Frame



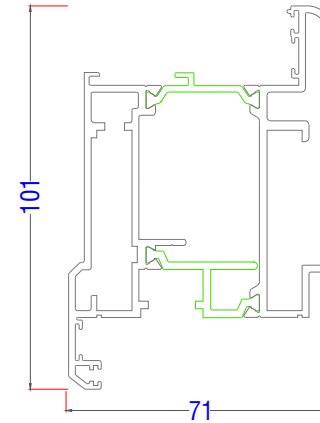
AW622 - Equal Leg Standard Frame 70mm



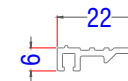
AW608 - Equal Leg Deep Frame
(Used with Trickle Vents)



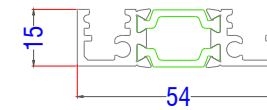
AD201 - Feature Door Leaf Open Out



AD200 - Feature Door Leaf Open In

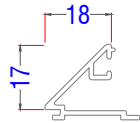


AD131 - Threshold Adaptor

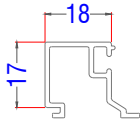


AD100 - Low Threshold 15mm

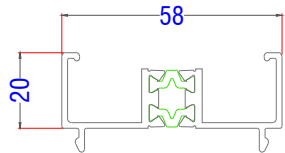
58BD - Profiles



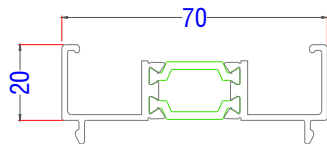
AW513 - Revealed Beam 28mm IGU



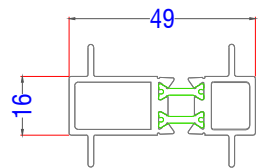
AW660 - Square Bead 28mm IGU



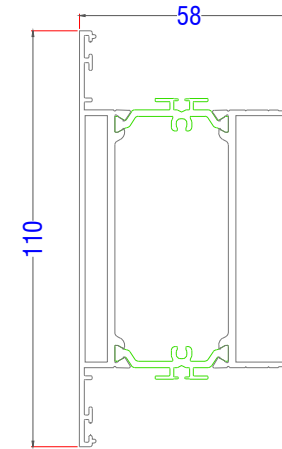
AW725 - 20mm Frame Extender (58mm)



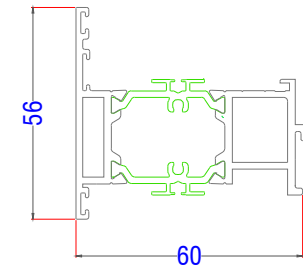
AW724 - 20mm Frame Extender (70mm)



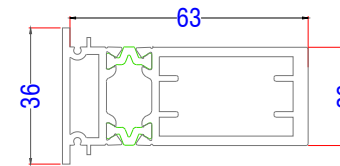
AW710 - Concealed Coupler



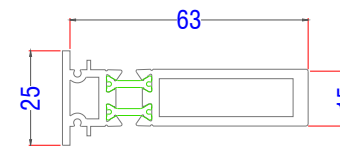
AD309 - Door Midrail 110mm



AD300 - Rebated Floating Mullion

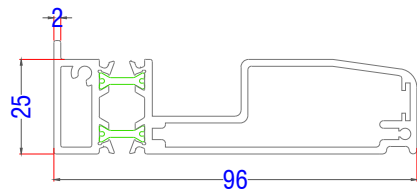


AW703 - 15mm Coupler Bar

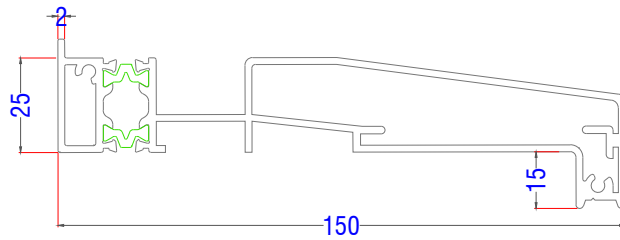


AW703 - 15mm Coupler Bar

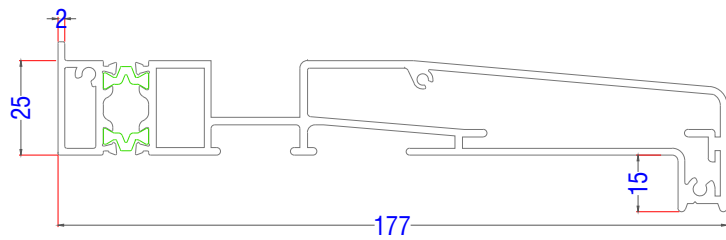
58BD - Profiles



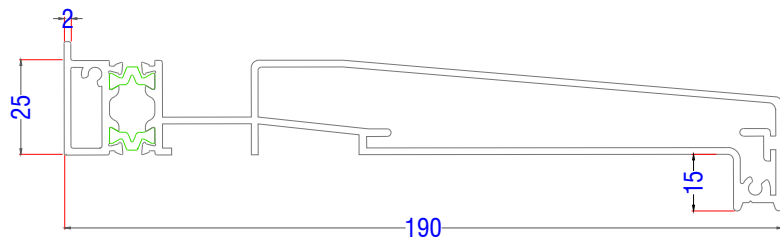
AW570 - 95mm Stub Nose Cill



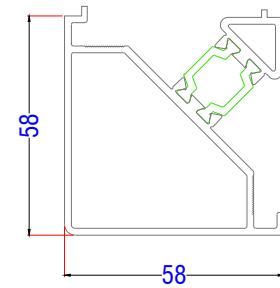
AW542 - 150mm Drop Nose Cill



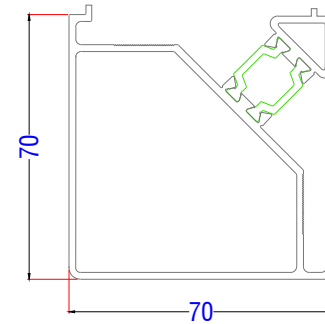
AW543 - 177mm Drop Nose Cill



AW544 - 190mm Drop Nose Cill



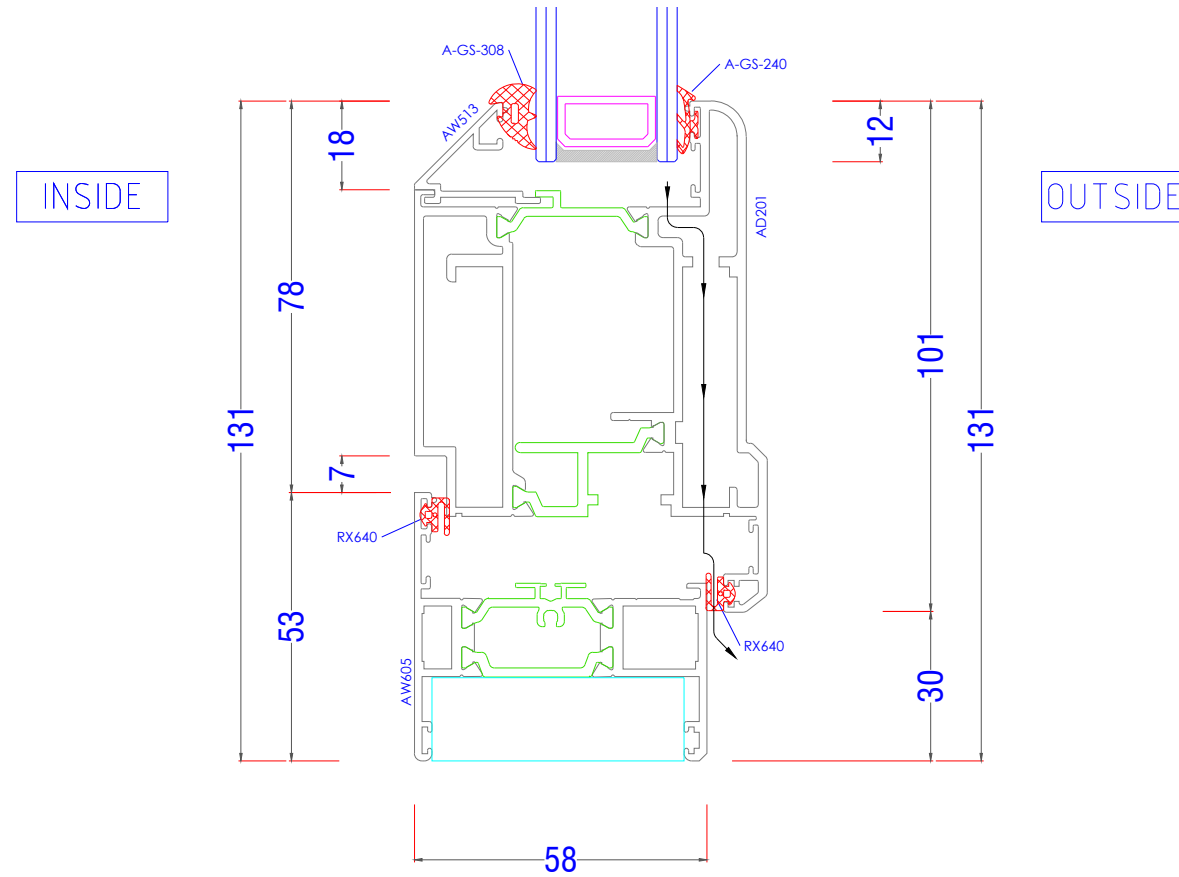
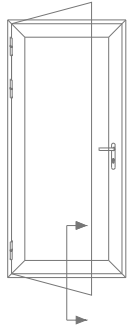
AW721 - 90deg Corner Post (58mm)



AW720 - 90deg Corner Post (70mm)

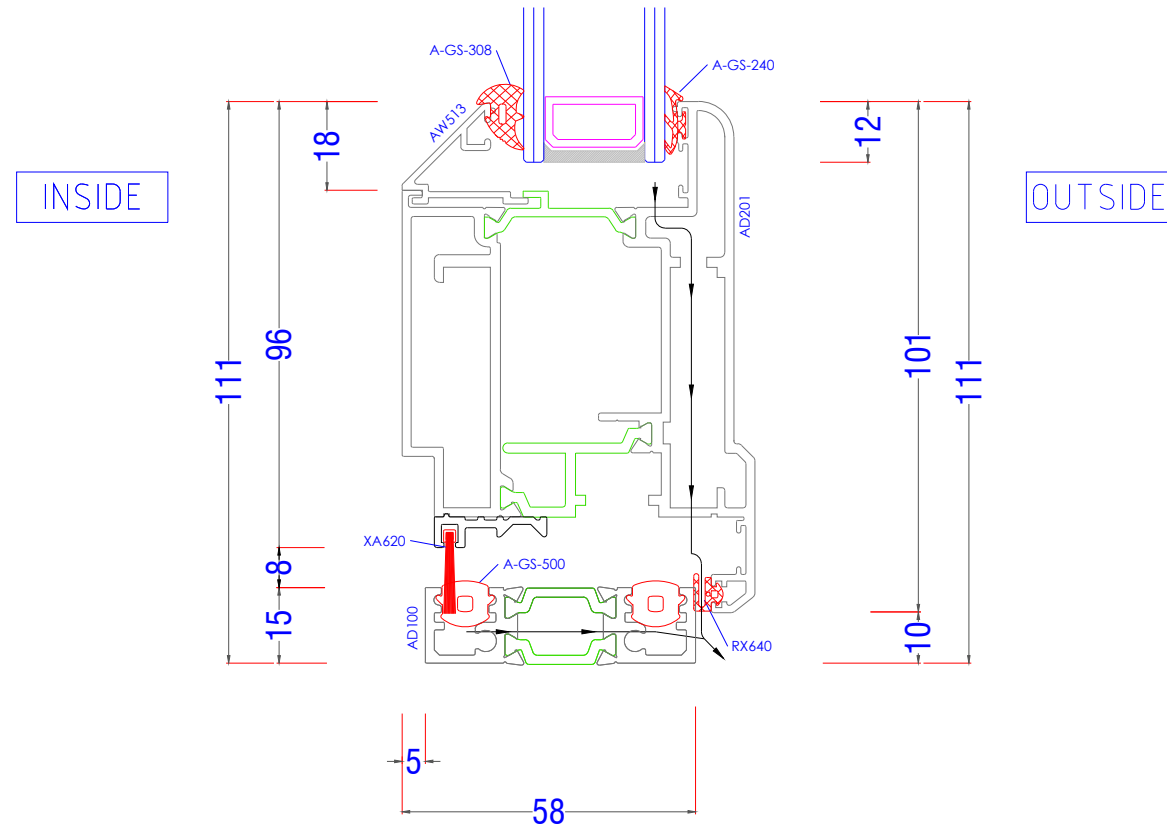
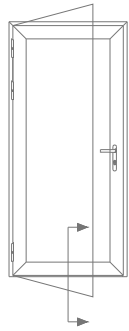
58BD - Typical Sections

Threshold - Rebated Frame Open Out



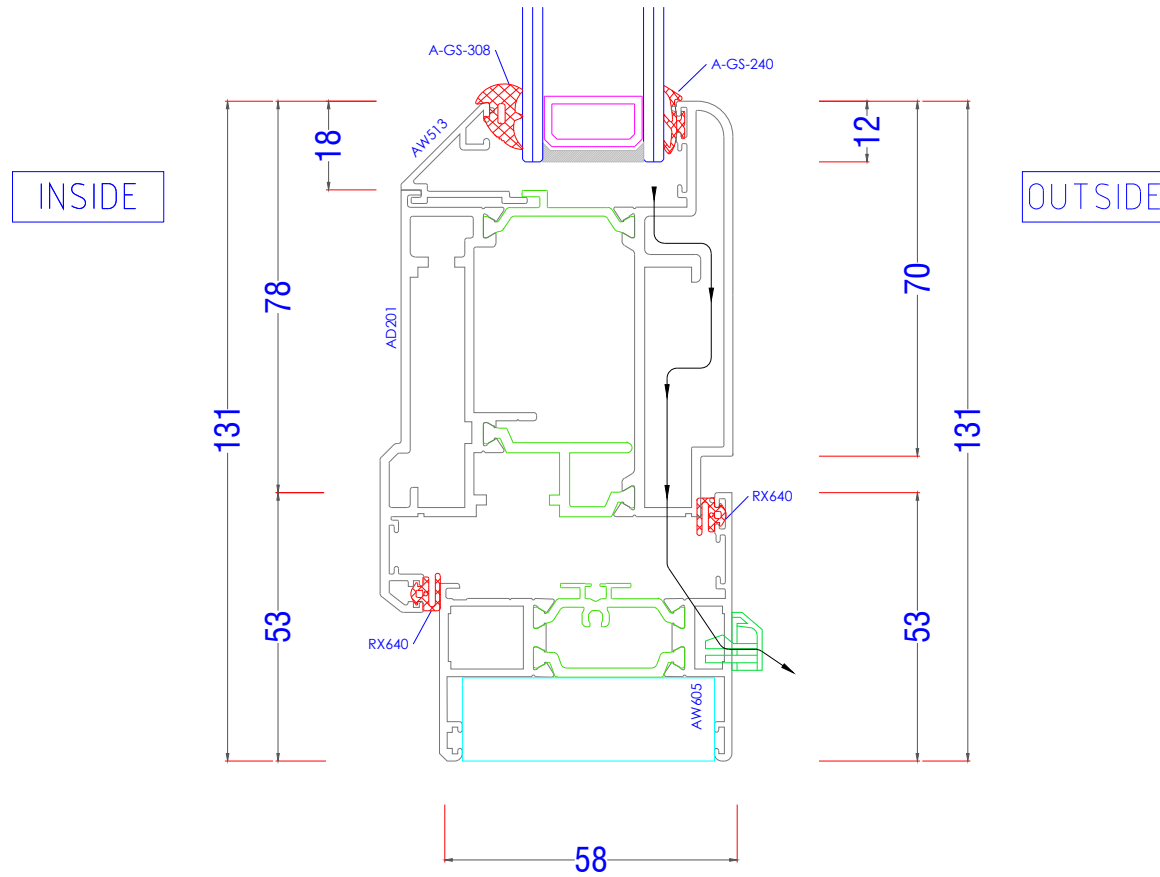
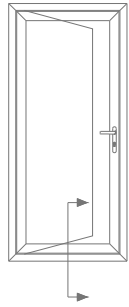
58BD - Typical Sections

Threshold - Low Threshold Open Out



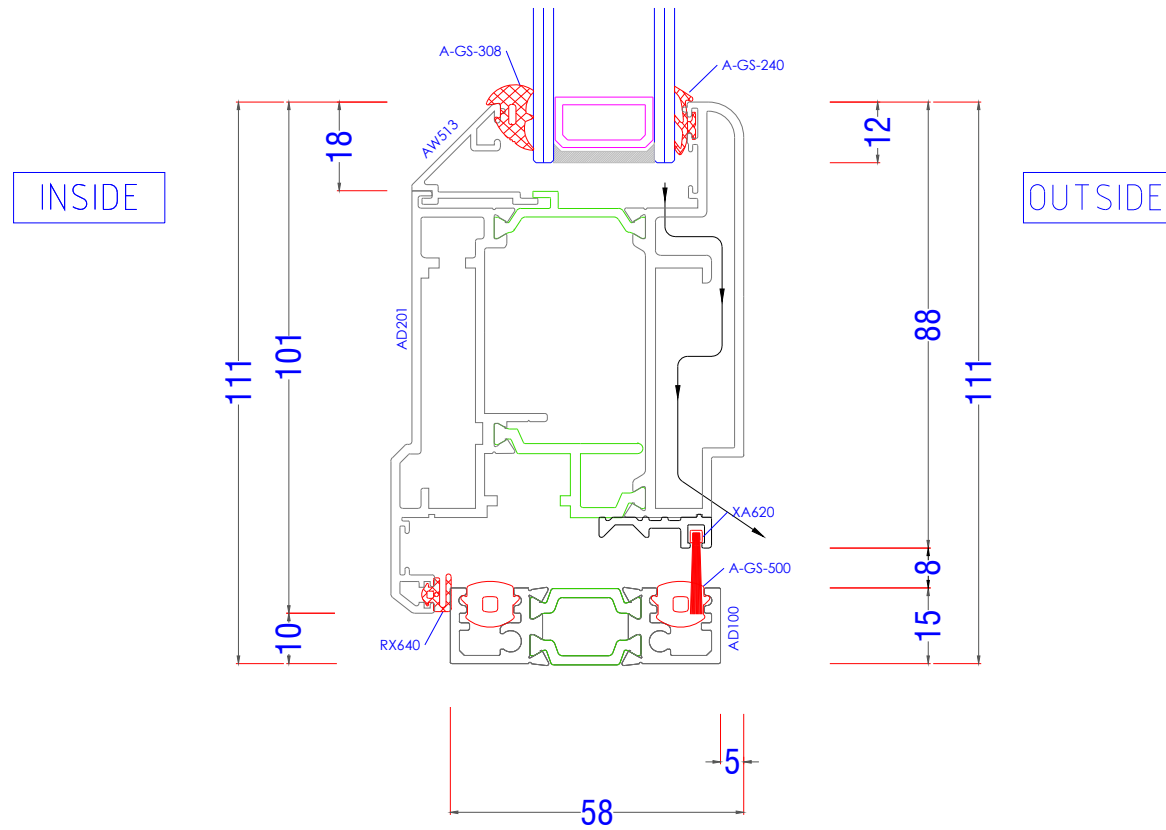
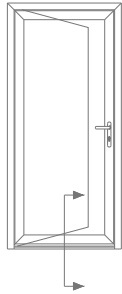
58BD - Typical Sections

Threshold - Rebated Frame Open In



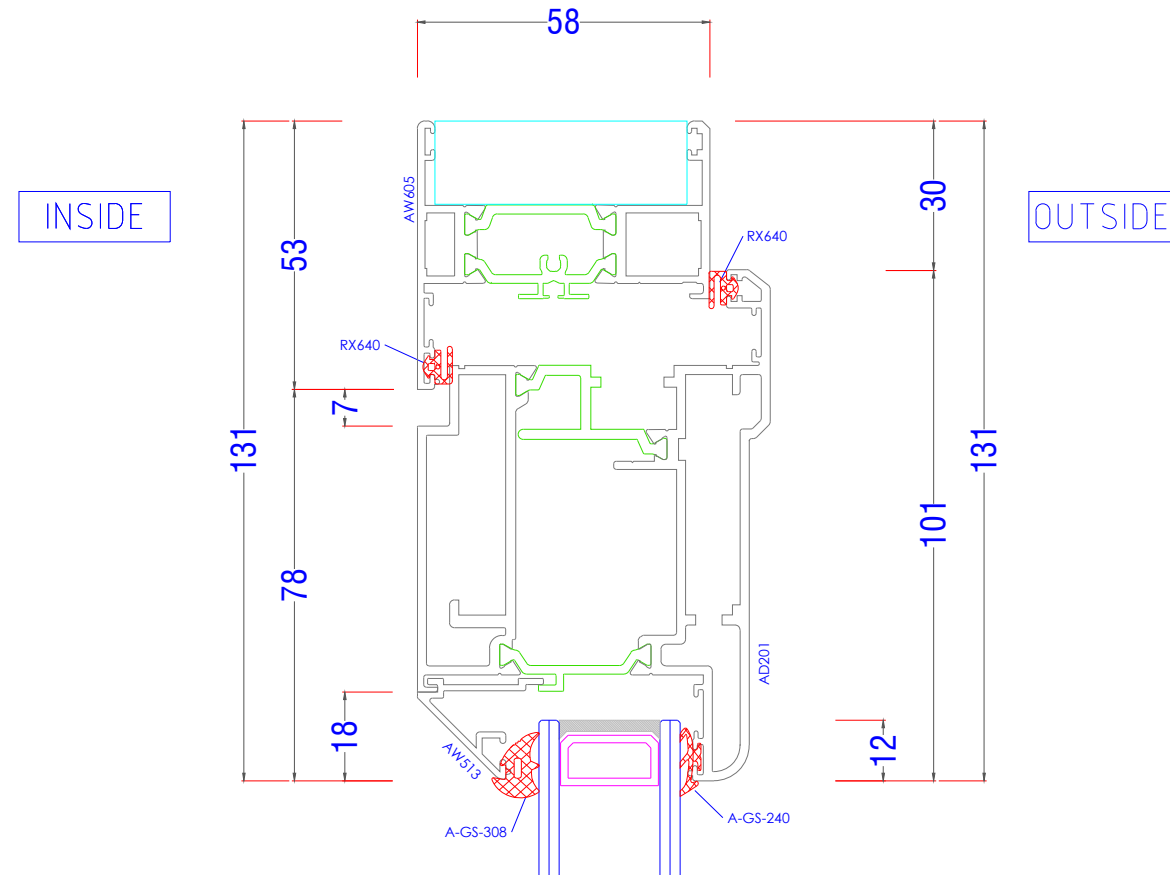
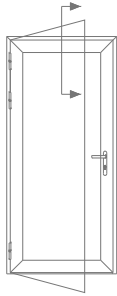
58BD - Typical Sections

Threshold - Low Threshold Open In



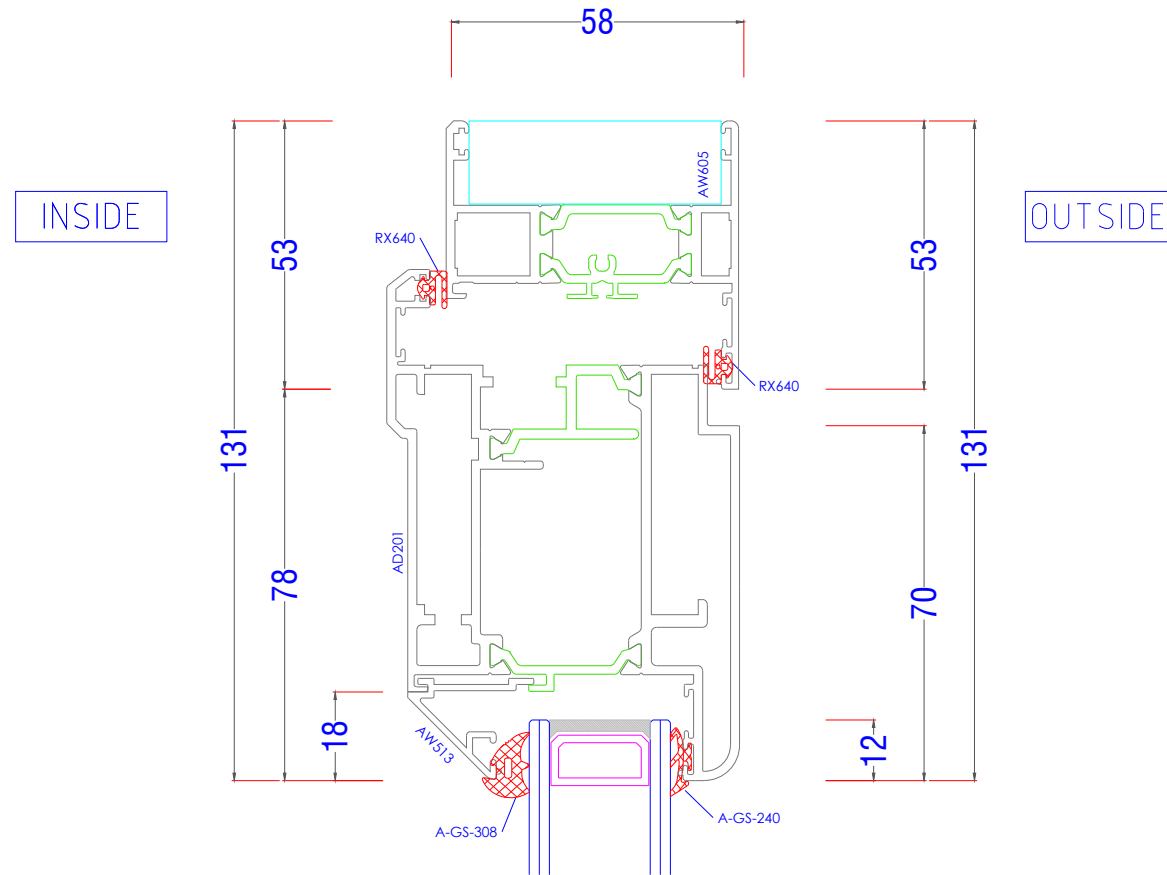
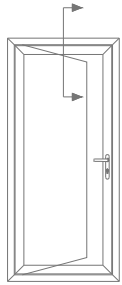
58BD - Typical Sections

Head - Open Out



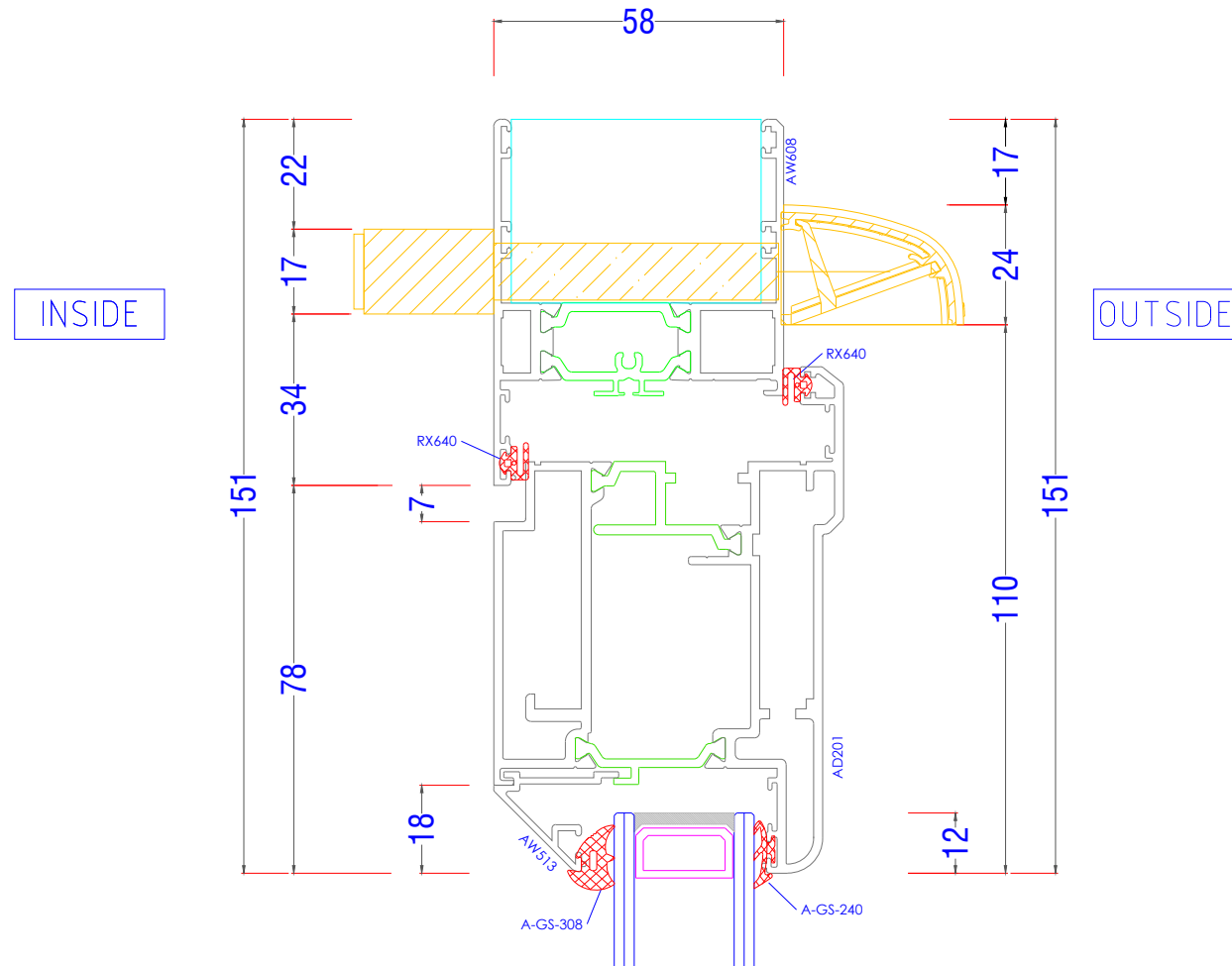
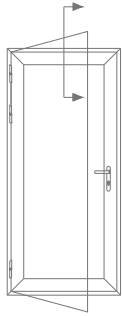
58BD - Typical Sections

Head - Open In



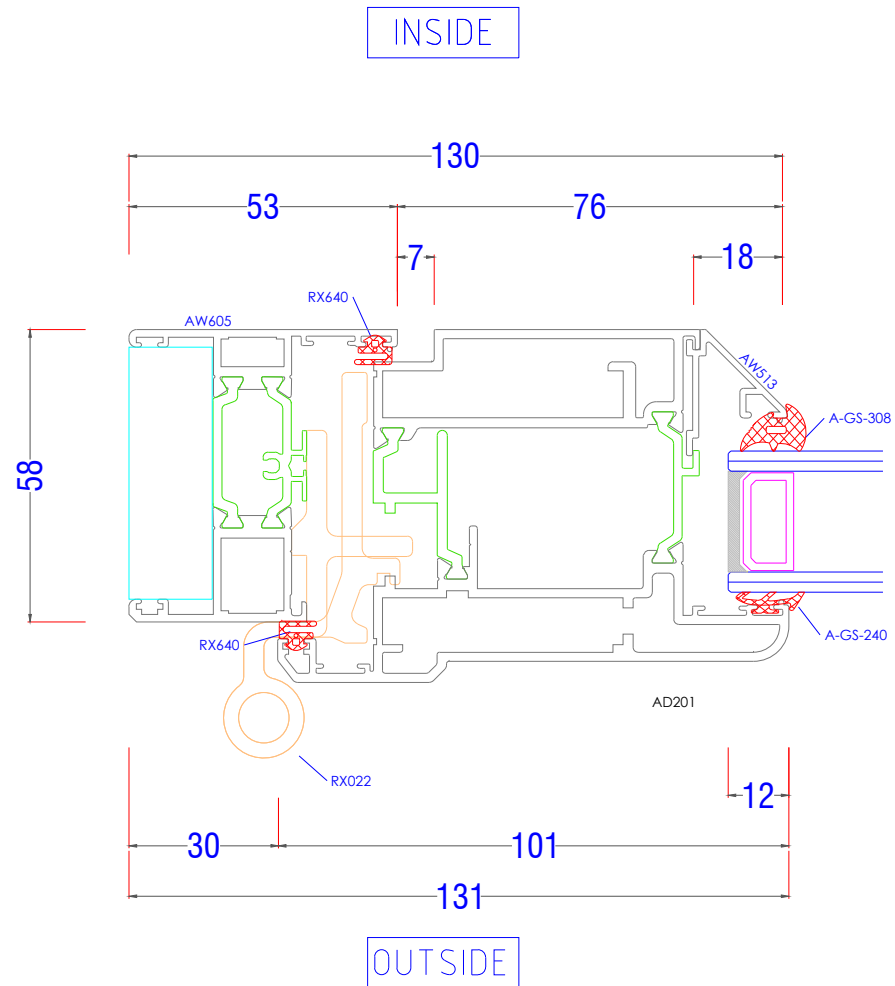
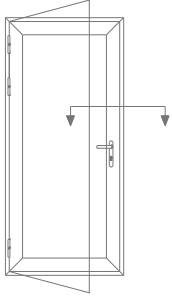
58BD - Typical Sections

Head - Extended Frame with Trickle Vent



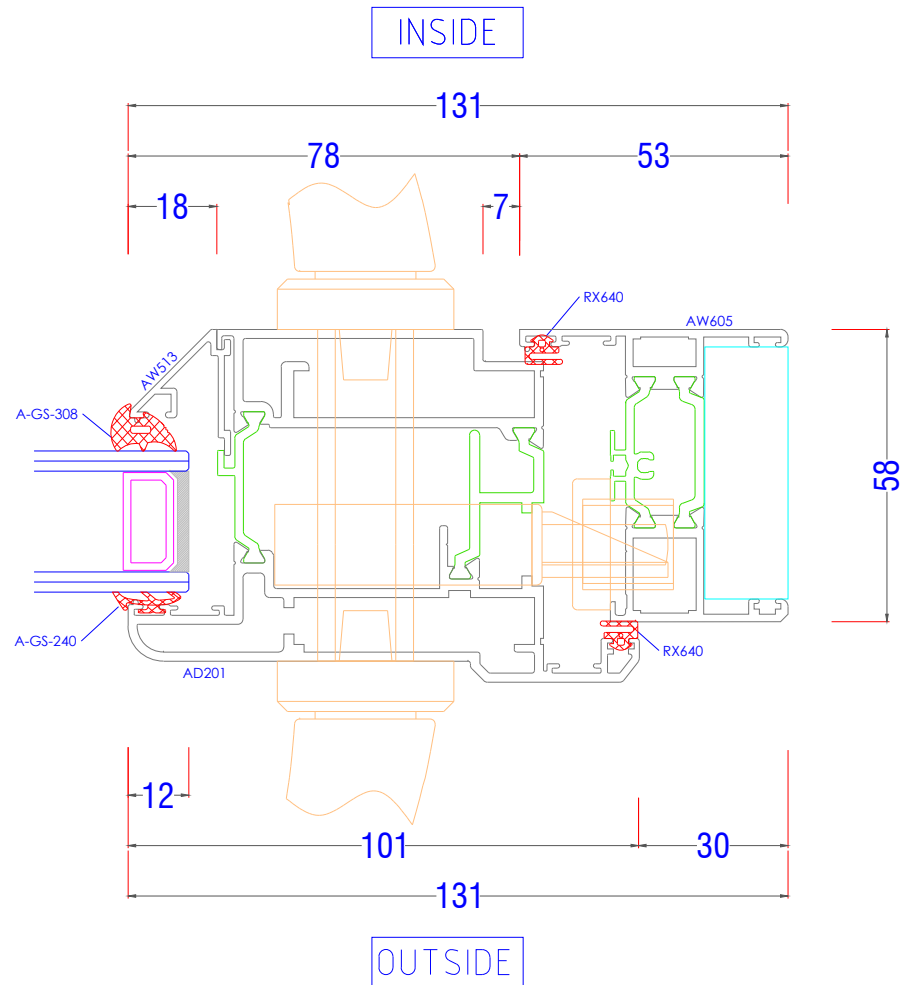
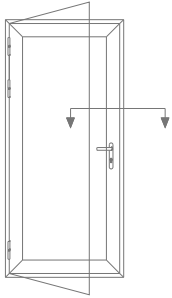
58BD - Typical Sections

Hinged Jamb - Open Out



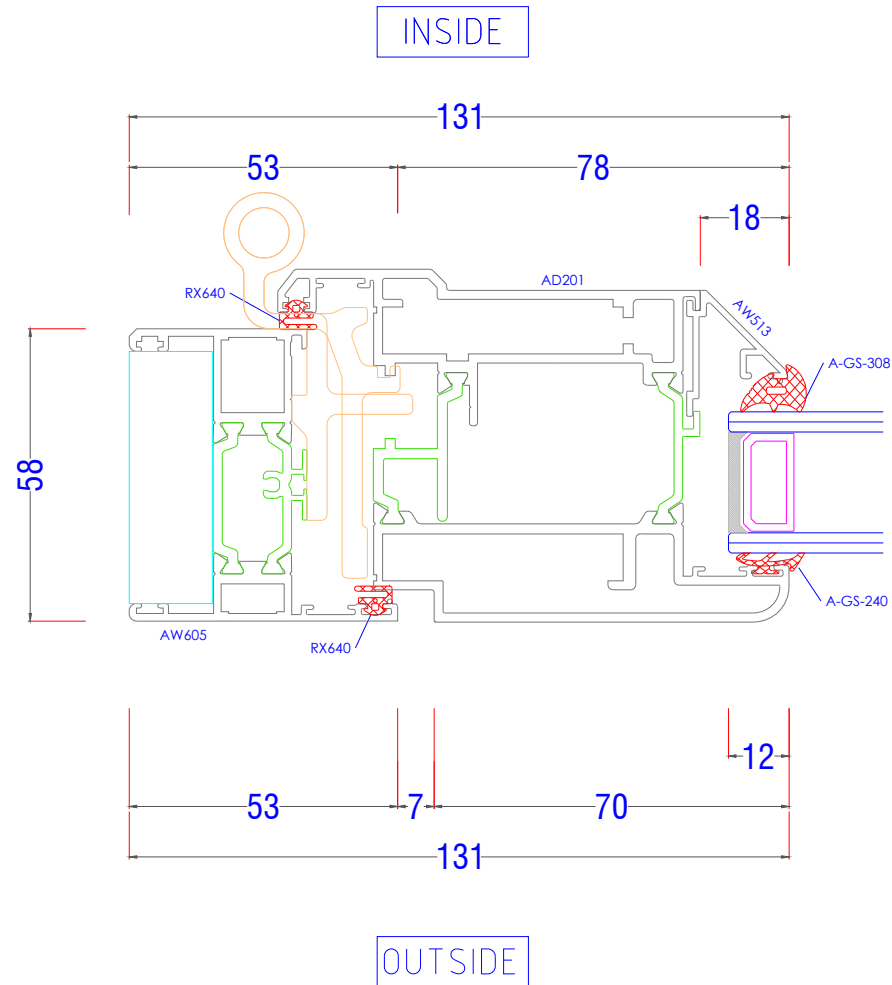
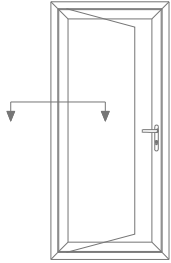
58BD - Typical Sections

Locking Jamb - Open Out



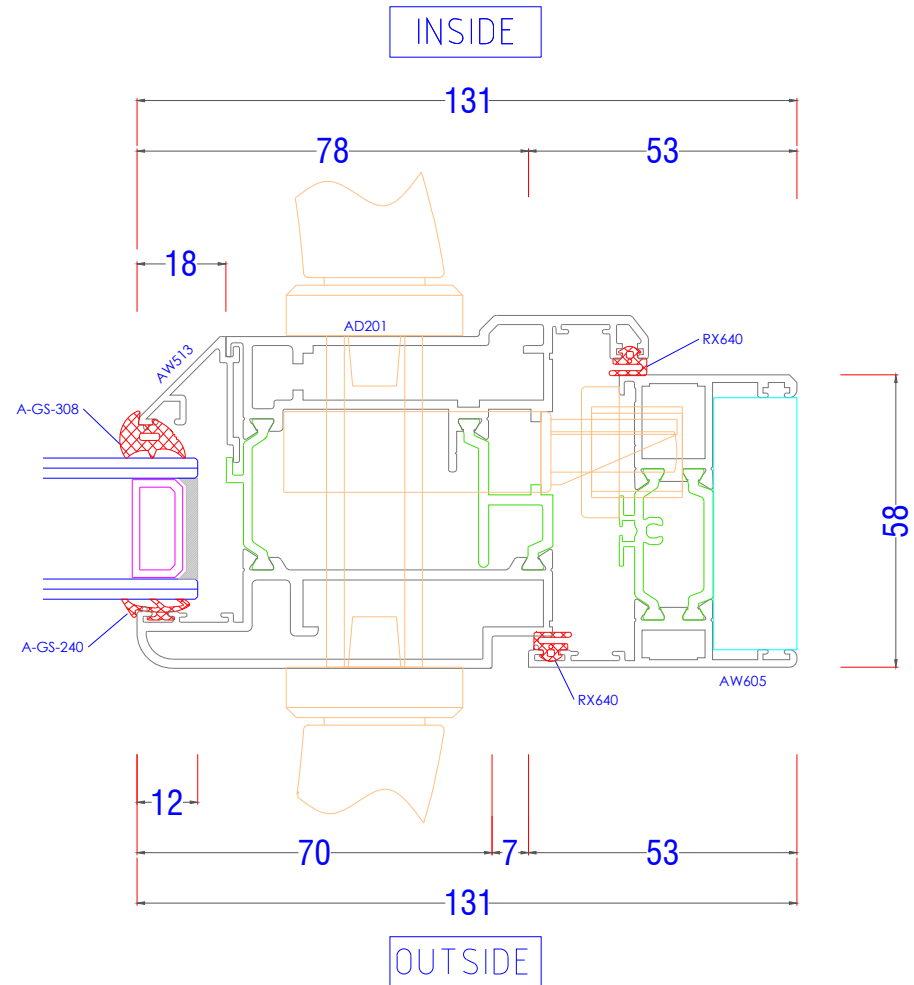
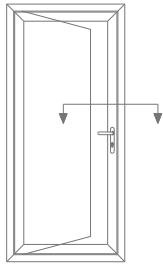
58BD - Typical Sections

Hinged Jamb - Open In



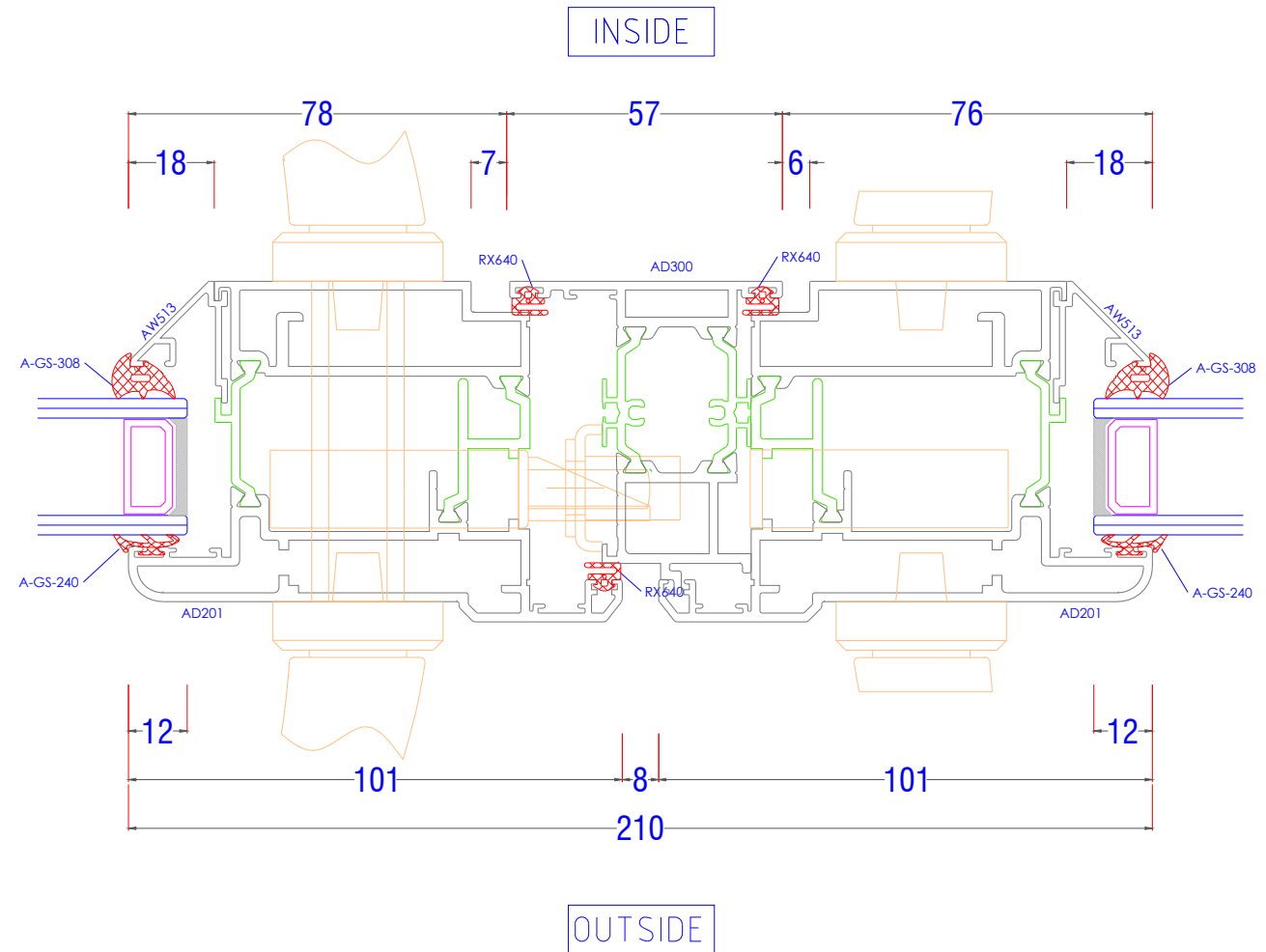
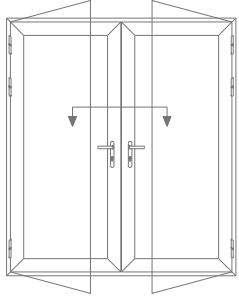
58BD - Typical Sections

Locking Jamb - Open In



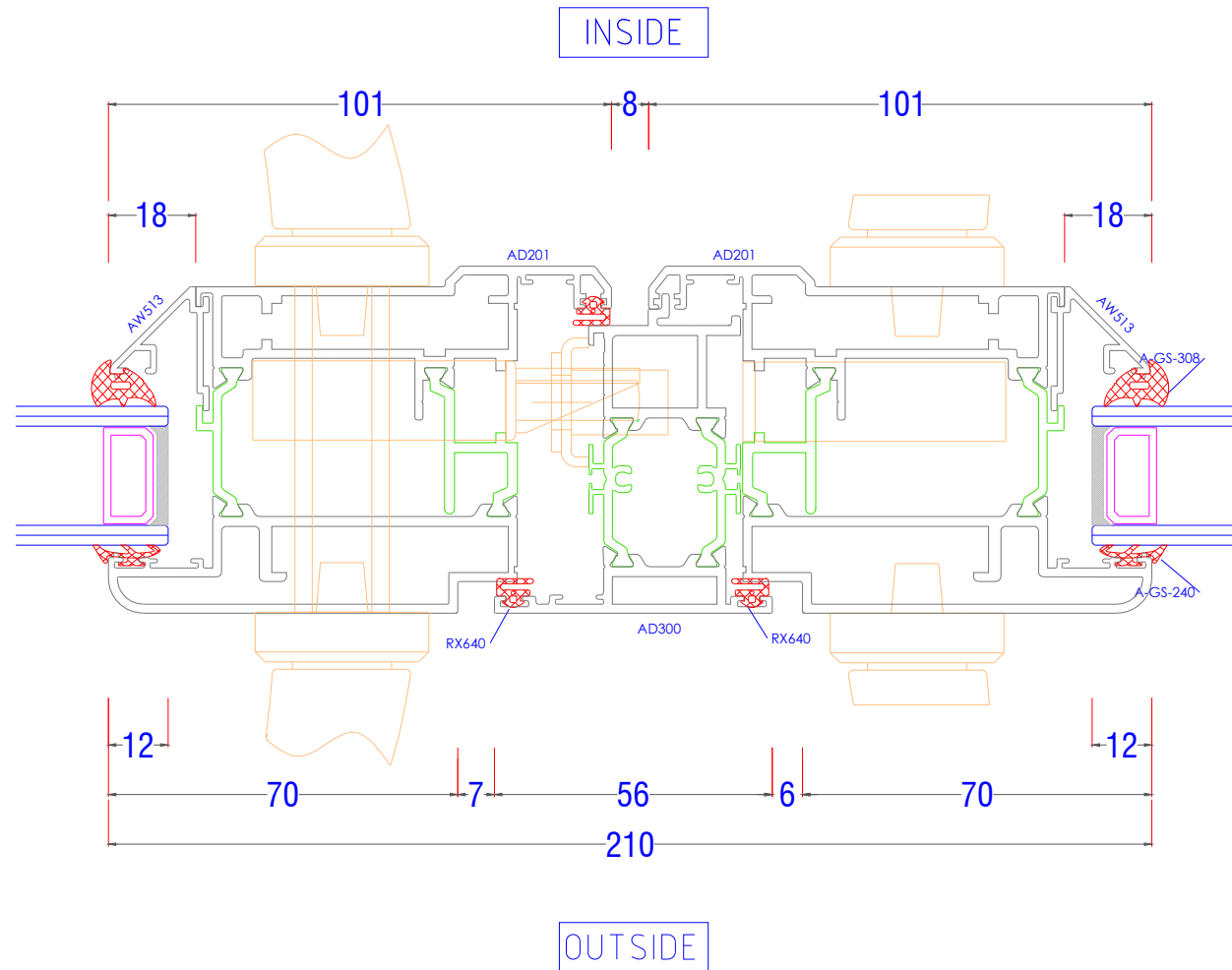
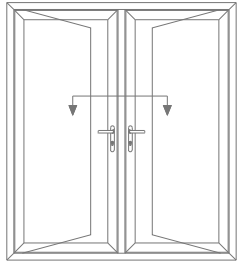
58BD - Typical Sections

French Door - Meeting Open Out



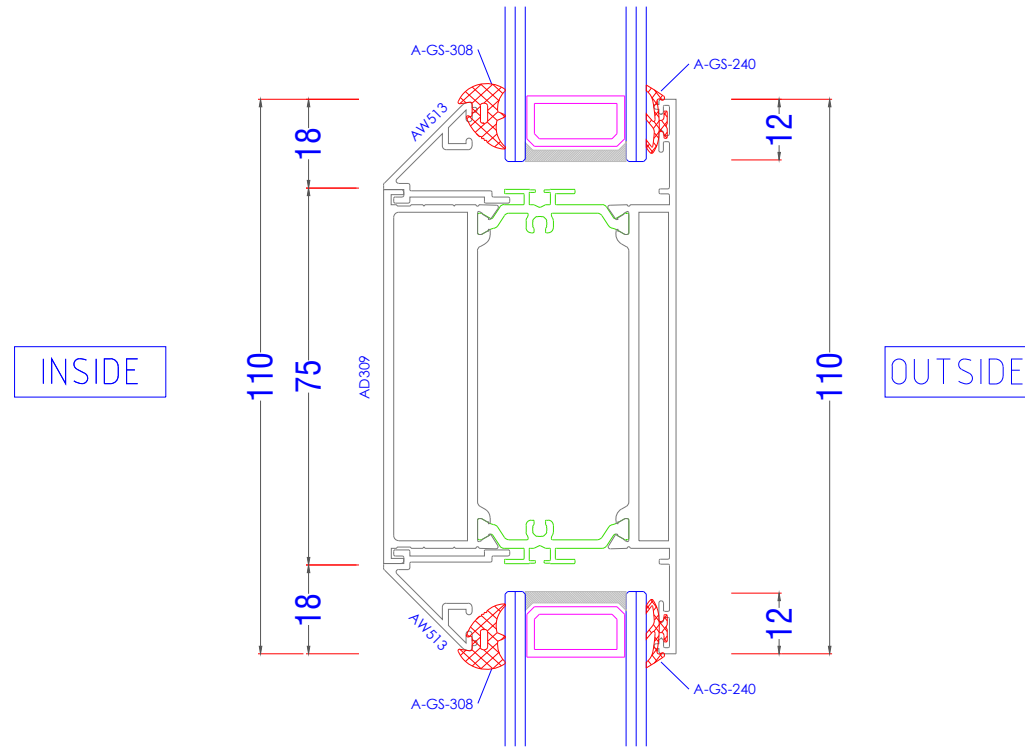
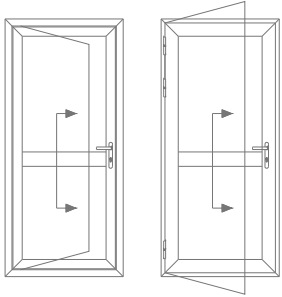
58BD - Typical Sections

French Door - Meeting Open In



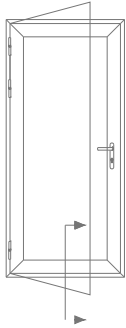
58BD - Typical Sections

AD309 - 110mm Midrail

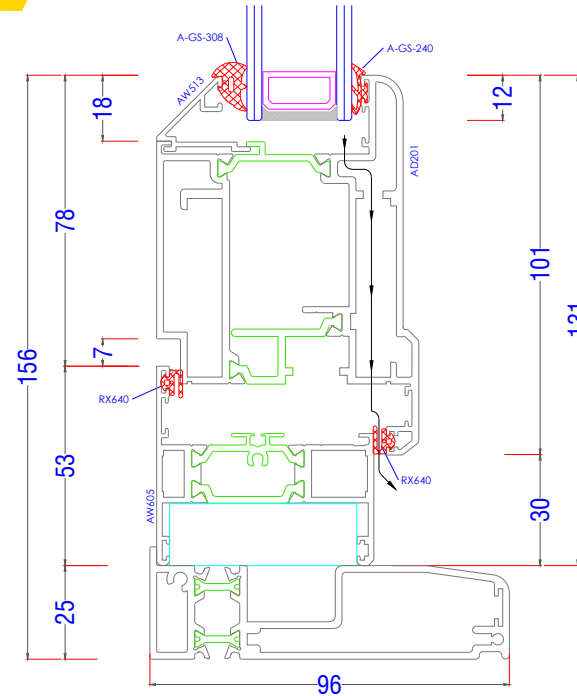


58BD - Typical Sections

Threshold - Rebated Frame Sill Options

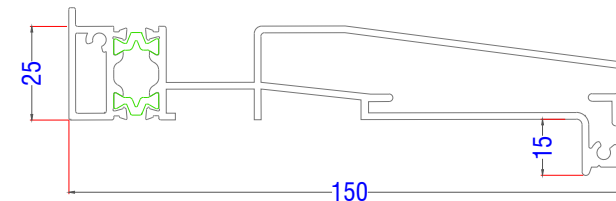


INSIDE

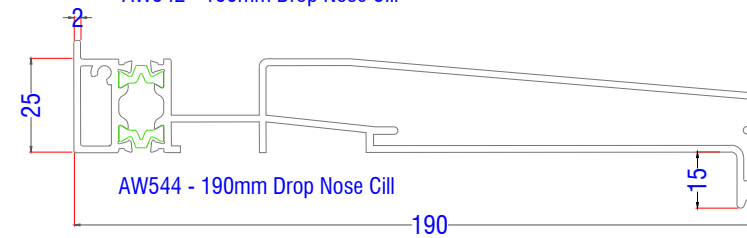


OUTSIDE

AW570 - 95mm Stub Nose Cill



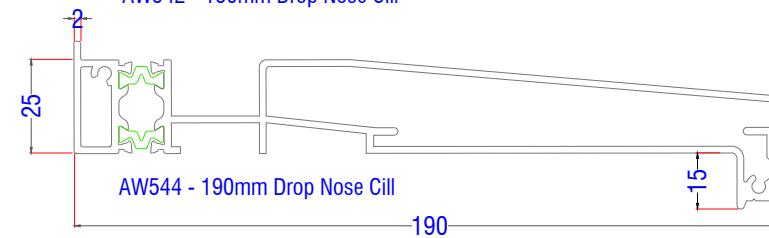
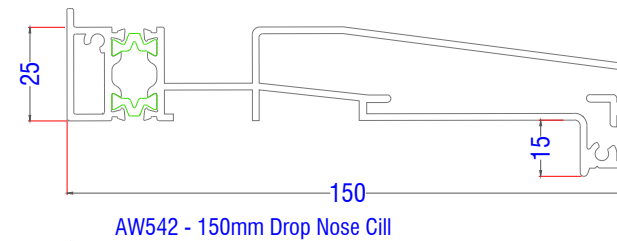
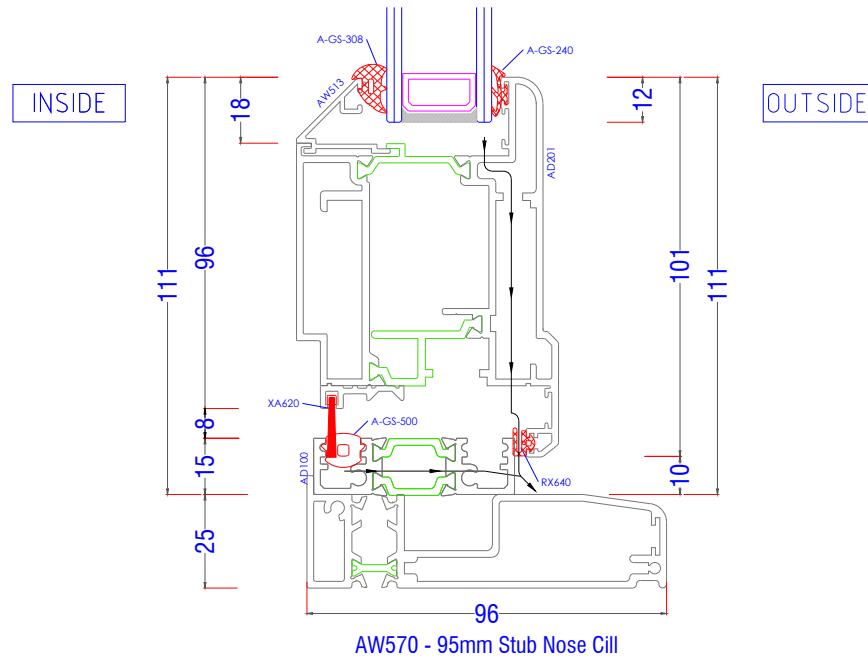
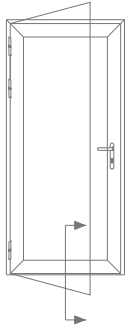
AW542 - 150mm Drop Nose Cill



AW544 - 190mm Drop Nose Cill

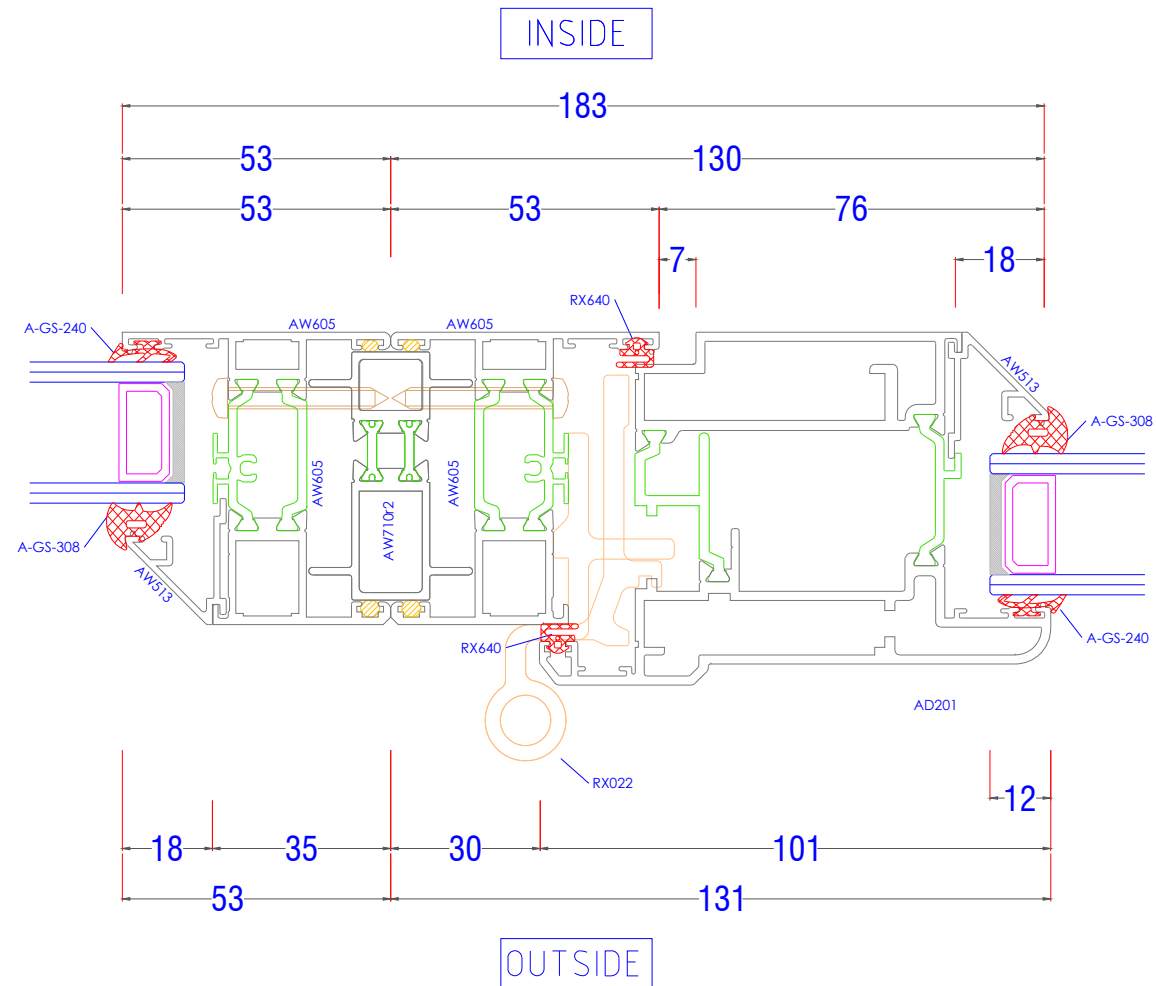
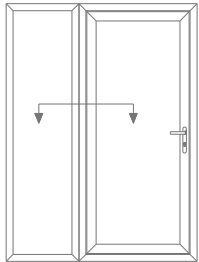
58BD - Typical Sections

Threshold - Low Threshold Cill Options



58BD - Typical Sections

Frame - Concealed Coupler





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Arkay Windows is a specialist large-scale fabricator with over 30 years experience based in Watford, North West London.

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